L 00260-66

ACCESSION NR: AP5013485

CZ/0088/65/001/001/0056/0061

AUTUOR: Macku, J. (Engineer, Candidate of sciences)

Nadvornik, P. (Docent, Doctor, Candidate of sciences)

TITLE: Electronic model of a neuron according to N. E. Wedensky

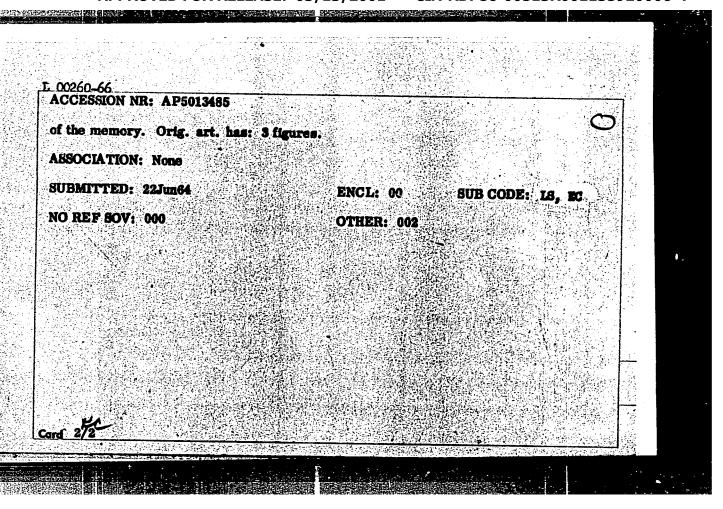
SOURCE: Kybernetika, v. 1, no. 1, 1965, 56-61

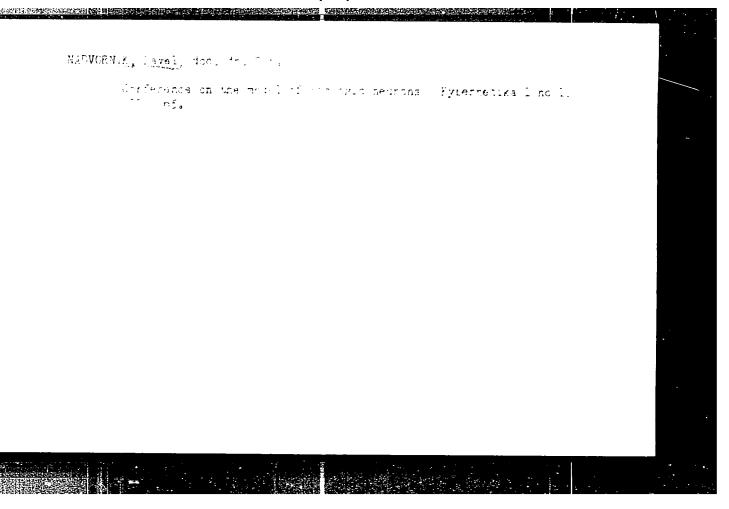
TOPIC TAGS: neuron, electronic simulation

ABSTRACT: Those properties of the neuron which can be described by the characteristic relation  $F_2 = \mathcal{C}(F_1)$  between the frequencies of the input and output signals were simulated on the basis of Wedensky's theory of nerve cell function. In the graphic representation, the course of the function corresponds to the stage of inhibition and to the stage of transmission of excitation. The electronic model was designed so that in addition to the function, it simulates even some anticipated structural and energetic properties of the cell In the design of the model of the biological neuron, there is a tendency to interpret the integration input circuits as the memory elements and the inhibition as the protective mechanism of the cell. The model itself was prepared in two variants: an electronic one and a transistorized one, both of which permit a better utilization of the electrochemical elements

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135920006-4





L 00096-66

ACCESSION NR: AP5012868

CZ/0088/65/000/002/0180/0183

AUTHOR: Drozen, Vledimir (Doctor); Nadvornik, Pavel (Docent, Doctor, Candidate of sciences)

TITLE: Variant of the electronic model of the neuron according to H. E. Wedensky

SOURCE: Kybernetika, no. 2, 1965, 180-183

TOPIC TAGS: neuron, electronic simulation

ABSTRACT: The model described of a biological neuron in a transistorized form permits a study of the relation between the amplitude and the frequency of the input signal and their influence on the responsiveness of the nerve cell. It reflects the relationship between two evolutionary degrees of information transmission, i.e., between the stationary excitation and the excitation wave which figure prominently in Wedensky's theory. The model employed does not truly represent the individual neuron as an active source of impulses, but simulates the overall behavior of a certain function of the nervous system. Functional analysis of the input indicates that the frequency modulation impulses may have a variable amplitude even when the input amplitude remains the same. Orig.

Card 1/2

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ACCESSION NR: AP5012868					0	
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UEMITTED: 22Jun64	ENCL:	00	SUB CODE:	. LS, EC		2.
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L 13143-66 ACC NR. AF6005684

SOURCE CODE: CZ/0079/65/007/002/0193/0193

AUTHOR: Pelikan, V.; Nadvornik, P.

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ORG: Psychiatric and Neurosurgical Clinic, Medical Faculty, Charles University,

3

TITLE: Theory of graphs and pathophysiological interpretation of mental disorders [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 193

TOPIC TAGS: pathology, physiology, psychneurotic disorder

ABSTRACT: The authors attempted to analyze clinical observations and prepare a graphical interpretation of the findings that would allow a generalization of such pathophysiological mechanisms as verbal structures, behavior, and thinking. Orig. art. has: 1 figure. / JPRS/

SUB CODE: 06, 05 / SUBM DATE: none

1/1 HW

MACH, J.; KROULIK, J.; KOSTELNIK, J.; NADVOPNIK, P.

Pulmonary candidiasis. Vnitrni lex. 1. religiosek-led
0 165.

1. Vnitrni oddeleni nemocnice Cervena Voda, Obvodnice ustam narodniho zdravi Usti n. Orl. (prednosta dr. Jan Mach., Prioni lecebna Zamberk (reditel dr. Frantisek Mydlil), Fatelogicke anatomicke oddeleni nemocnice Litomysi (prednosta dr. Jaef Kostelnik) a Mikrobiologicke oddereni (kreso. hygieni ko-epidemiologicke stanice litomysi (prednosta prom. lek. lage Nadvornik).

NADVORNIK, P.; PAROUIEK, Z.

A study on the occurrence of pertussis and parapertussis among the population of the Svitavy district, and the experience with these diseases in the district. Cesk. epidem. 14 no.6:346-354 N 165.

1. Mikrobiologicke oddeleni Okresni hygienicko-epidemiologicke stanice Svitavy se sidlem v Litomysli a Protiepidemicke oddeleni Okresni hygienicko-epidemiologicke stanice, Svitavy.

NADVORNIK, Pavel, doc. MUDr.

Cybernetic models of a nerve cell. Sborn. ved. prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 7 no.5:Suppl.:427-428 '64.

Vvedenskii's theory of the function of the neuron. Ibid.:433-434

1. Neurochirurgicka klinika fakultni nemocnice Krajskeho ustavu narodniho zdravi, Hradec Kralove (prednosta prof. MUDr. R. Petr).

KRAL, Ladislav; PECHACEK, Miroslav; NADVORNIK, Pavel; VONDRACKOVA, Anna

Results of long-term observations of patients following tick-borne encephalitis. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.5: 545-553 \*65.

l. Infekcni klinika (prednosta - prof. MUDr. J. Ondracek); Neurochirurgicka klinika (prednosta - prof. MUDr. R. Petr) a Ustav lekarske mikrobiologie (prednosta - MUDr. O. Vejbora) Krejskeho ustavu narodniho zdravi v Hradci Kralove.

# L 30728-66 ACC NR: AP6022103 SOURCE CODE: CZ/0039/65/026/012/0701/0708 AUTHOR: Macku. Jiri (Candidate of sciences; Engineer); Nedvornik. Payel (Docent; Doctor of medicine, Candidate of sciences); Vesely, Ctibor (Doctor of medicine; Candidate of sciences) ORG: Department of Physics, Neurosurgical Clinic, Charles University, Hradec Kralove (Katedra fyziky neurochirurgicka klinika Karlovy university); Department of Physiology, Medical Faculty, Charles University, Hradec Kralove (Katedra fyziologie, lekarske fakulty, Karlovy university) TITLE: Modelling a neuron 22 SOURCE: Slaboproudy obzor, v. 26, no. 12, 1965, 701-708 TOPIC TAGS: neuron, morphology, physiology, anatomic model ABSTRACT: The paper describes recent problems connected with modelling the neuron as the basic element for processing information within the nervous system. The morphological and physiological properties are shown; they are important for model-It also is shown how those properties have been modelled experimentally until now. Models described in the literature are evaluated and some new methods are pointed out which should be used for neuron model research so as to bring them nearer to the properties of real neurons and to make them really helpful in investigation of properties of the nervous system. Orig. art. has: 10 figures. [Based on authors! Eng. abst.] [JPRS]

SUB CODE: 06 / SUBM DATE: 11Feb65 / ORIG REF: 003 / SOV REF: 001 / OTH REF: 015

NADVORNIK, P.; PETR, R.; REZAC, O.; SCHINDLERY, C.

A few remarks on the methods of stereotaxic operations. Cesk. neurol. 28 no.6:408-411 N '65.

1. Neurochirurgicka klinika lekarske fakulty Karlovy University v Hradci Kralove (prednosta: prof. dr. R. Petr.).

MENSIKOVA, Z.; ROZSIVAL, V.; NADVOBNIK, P. Technicka spoluprace KALISTOVA, I.

Clinical and electroencephalographic picture of disturbances of consciousness (comatose, semicomatose, amential, delirious and somnolence). Comparison with the EEO of physiological sleep.

Cesk. neurol. 28 no.61429-443 N \*65.

1. Neurochirurgicka klinika lekarske fakulty Karlovy University v Hradci Kralove (prednosta - prof. dr. R. Petr).

NADVORNIK, P.; NEMECEK, S.; BEFAN, J.; POISIVAL, V.

Clinical and anatomical correlations in injuries of the cervical spinal cord. Rozhl. chir. 12 no.99621-017 S 165.

1. Neurochirurgicka klinika lexarske fakulty Karlovy University v Hradci Kralove (prednosta prof. dr. h. lett).

# CZECHOSLOVAKIA

NEMECEK, S.; PETR, R.; SPACEK, J.; NADVORNIK, P.; Neurosurgical Clinic (Neurochirurgicka Klinika) Head (Prednosta) Prof Dr R. PETR, Chair of Histology and Embryology (Katedra Histologie s Embryologii) Head (Vedouci) Prof Dr V. VRTIS, Medical Faculty, Charles University (Lek. Fakulty KU), Hradec Kralove.

"Microscopic Findings in the Acoustic Nerve and in Acoustic Neurinoma."

Prague, Ceskoslovenska Neurologie, Vol 29, No 5, Sep 66, pp 289-

Abstract /Authors' English summary 7: It is important to operate on acoustic neurinoma as early as possible and to determine the origin and microstructure of these tumors. A survey of the histological, histochemical, and electronoptic findings made by the authors is presented. 4 Figures, 9 Western, 4 Czech, 1 East German reference.

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38

#### Neurology

CZECHOSLOVAKIA

NADVORNIK, P.; OSCADAL, A.; CERNY, J.; Neurosurgical Clinic, Medical raculty, Charles University (Neurochirurgicka Klinika Lek. Fak. KU), Hradec Kralove, Head (Prednosta) Prof Dr R. PETR; Neurological Department Okresni Institute of National Health (Neurologicke Odd. OUNZ), Havlickuv Brod, Head (Vedouci) Dr A. OSCADAL.

"Diencephaloschisis."

Prarue, <u>Ceskoslovenska Neurolorie</u>, Vol 29, No 5, Sep 66, pp

Abstract /Authors' English summary 7: Diencephaloschisis is a rare anomaly of the brain; in the past it was known only from autopsies. The authors describe a live patient, in whom the disease was diagnosed by pneumoencephalographic examination. Its manifestations are similar to suprasellar expansion; this is different from the fissure of the hypothalamus. 1 Figure, 1 Western reference.

CZECHOSLOVAKIA

NADVORNIK, P.; Neurological Clinic, Medical Faculty, Charles University (Neurologicka Klinika Lekarske Fakulty KU), Hradec Kralove.

"Basic Biological Neuron Networks and Their Modelling. 1. The Diffuse Nervous System."

Prague, Activitas Nervosa Superior, Vol 8, No 3, Sep 66, pp

Abstract: Neuron elements in primitive forms of animal life are discussed. Transformation of epithelium cells into sensory cells is described. Formation of neuron networks in developing forms of animal life is discussed. Stimuli of the primitive nervous networks are described. Basic laws that must be reproduced by the models of the nervous networks are discussed. The importance of simulating coordination and dampening mechanisms is described. The models should reproduce the ability of the nerves to connect any given two elements and reproduce the fact that the cells do not have a uniform function but are differentiated. A basic element of such mechanism is a ganglion cell. I Figure, Il Western, 3 Czech, 1 Russian reference.

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CZ ECHOSLOVAKIA

NADVORNIK, P.; Neurological Clinic, Medical Faculty, Charles University (Neurologicka Klinika Lekarske Fakulty KU), Hradec Kralove.

"Basic Biological Neuron Networks and Their Modelling. 2. The Ganglion Nervous System."

Prague, Activitas Nervosa Superior, Vol 8, No 3, Sep 66, pp 287 - 293

Abstract: In primitive animals the nervous network is concentrated around the mouth opening. The main nervous ganglia are located around the primary mouth. In higher forms of life such as worms the nervous system is arranged circularly to correspond to the shape of the animals body. Formation of a protective layer of chitin or calcium carbonate for the CNS is discussed. In some primitive invertebrates there are only 162 nerve—cells; the more developed ones have up to 500 million of these cells. All ganglion centers can be classified as: lower motor centers, intermediate motor centers, higher motor centers, receptor systems, and systems of motivation control. The location of these centers in various parts of the body is discussed. 13 Western, 3 Czech, 1 Russian reference.

- 37 -

L 45946-66

ACC NR: AP6018273

SOURCE CODE: CZ/0088/65/000/006/0551/0559

AUTHOR: Macků, Jiří (Engineer, Candidate of science); Nádvorník, Pavel (Docent, Doctor, Candidate of science); Veselý, Ctibor (Doctor, Candidate of science)

ORG: Faculty of Medicine, KU, Hradec Králové (lékařská faculta KU)

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TITLE: Model of a neuron with self-organizing capacity [ Paper presented at the Seminar of the Main Commission of Cybernetics Problems in Biology and Medicine attached to the Ministry of Health held in Prague from 22 to 23 April 1965]

SOURCE: Kybernetika, no. 6, 1965, 551-559

TOPIC TAGS: neuron, cybernetics, self organizing system

ABSTRACT: This is the text of a lecture presented at a Seminar of the Commission for Cybernetics in Biology and Medicine attached to the Ministry of Health. The authors propose an electronic model of a neuron. The model represents more accurately the properties of a real neuron according to the present concepts than the models described previously. The most important property of the new model is its self-organizing capacity made possible by its memory. This self-organizing capacity influences the threshold according to the processed signals and provides for a spontaneous reorganization of the network from the original monistic network to

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ACC NR: AP6018273		0
synapsis must be mo	Memory is now attributed to synaptic inputs of a neuron deled differently than it has been done so far. The author g from the monistic to the dualistic interpretation of the	self-organizing
After a certain time which process signal	on. In the primary stage the model has the properties of the monistic network is changed to a dualistic one in wh is of medium intensity increase their permeability, whil ntensive signals will close the way to all signals. Orig.	e transmission
ures.		
SUB CODE: 05,06/	SUBM DATE: 29Apr65/ ORIG REF: 003/ OTH REI	F; 002
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CZ/0088/65/000/006/0551/0559

AUTHOR: Macků, Jiří (Engineer, Candidate of science); Nadvorník, Pavel (Docent, Doctor, Candidate of science); Veselý, Ctibor (Doctor, Candidate of science)

ORG: Faculty of Medicine, KU, Hradec Králové (lékařská faculta KU)

TITLE: Model of a neuron with self-organizing capacity [Paper presented at the Seminar of the Main Commission of Cybernetics Problems in Biology and Medicine attached to the Ministry of Health held in Prague from 22 to 23 April 1965]

SOURCE: Kybernetika, no. 6, 1965, 551-559

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#### "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135920006-4

SOURCE CODE: CZ/0082/65/028/006/0408/0411 ACC NR. A: 103/702 AUTHOR: Nadvornik, P.; Petr, R.; Rezac, O.; Schindlery, C. ORG: Neurosurgical Clinic, Medical Faculty, Charles University/headed by Professor, Doctor R. Petr/, Hradec Kralove (Neurochirurgicka klinika lekarske fakulty KU); [Nadvornik] Faculty Hospital, Hradec Kralove (Fakultni nemocnice) TITLE: Several suggestions for improved methods of stereotactic operation SOURCE: Ceskoslovenska neurologie, v. 28, no. 6, 1965, 408-411 TOPIC TAGS: tracer study, surgery, gland ABSTRACT: [Authors! English summary modified 7: On the basis of a study of 162 stereotactic X-rays, the authors suggest changing the auxiliary point in hypophysectomy to a point closely anterior to the tuberculum so as to reduce the disporsion angle above the sellar diaphragm. A stereotactic map showing the relationship of the 3rd ventricle or the chiasma to the sella is shown; this may be used to find the position of isotopes placed in the sella. Correlation of X-ray and anatomical foramen of Monroe is presented and the use of its lower edge as reference point recommended. A method of computing coordinates of subcortical structures is described. A simplified method of finding individual points in the anterior complex of thalamic nuclei is discussed. Orig. art. has: 3 figures. [JPRS] SUB CODE: 07, 06 / SUBM DATE: none / OTH REF: 006 Card 1/1

L 07913-67
ACC NRI AP6031226 SOURCE CODE: CZ/0088/66/000/005/0435/0439

AUTHOR: Nadvornik, Pavel (Docent; Doctor of medicine; Candidate of sciences); Matejicek, Vaclav (Doctor of medicine; Hradec Kralove); Votruba, Antonin (Engineer); Houda, Vaclav (Graduate mathematician; Prague); Drozen, Vladimir (Doctor; Hradec Kralove)

ORG: [Nadvornik; Matejicek] Neurosurgical Department, Faculty of Medicine, Hradec Kralove (Neurochirurgicka klinika lekarske fakulty); [Votruba; Houda] Division of Automation, UME, Prague (Utvar automatizace, UME); [Drozen] Pedagogical Faculty, Hradec Kralove (Pedagogicka fakulta)

TITLE: Diagnostic work by an LGP 30 computer

SOURCE: Kybernetika, no. 5, 1966, 435-439

TOPIC TAGS: computer application, nervous system disease, medical science

ABSTRACT: Diagnosis of neurosurgical diseases by an LGP 30 computer has been experimentally tested at the Neurosurgical Department of the <u>Faculty of Medicine</u> in <u>Hradec Kralove</u>. The probability matrix for the computer work was designed and based on a statistical evaluation of 150 case histories of the department in which Cord 1/2

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56 different diseases have been established from 60 clinical findings (sympostic partial sympostic par	ossibili- nis tments,
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#### "APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R001135920006-4

SOURCE CODE: CZ/0082/65/028/006/0429/0443 FACC NR: AP6034708 AUTHOR: Mensikova, Z.; Rozsival, V.; Nadvornik, P. ORG: Neurosurgical Clinic Medical Faculty, Charles University/headed by Doctor, Professor R. Petr/, Hradec Kralove (Neurochirurgicka klinika lekarske fakulty KU); [Mensikova] Faculty Hospital, Hradec Kralove (Fakultni nemocnice) TITIE: Clinical and EEG picture of disturbances of consciousness (comatose, semicomatose states, confusion, delirium and drowsiness) [This paper was presented at the Czech-Polish EEG Symposium held in Sopot, Poland in 1964.] SOURCE: Ceskoslovenska neurologie, v. 28, no. 6, 1965, 429-443 TOPIC TAGS: EEG, central nervous system, medical research, human ailment ABSTRACT: / Authors' English summary modified 7: 76 EEG of 59 patients were evaluated; among the patients, 18 were comatose, 13 semicomatose, 6 confused and delirious, and 24 drowsy. 22 cases were verified by operation and 28 by autopsy. In 26 patients vascular losions were found, and in 14 expanding lesions. In recordings, focal signs were recognized most easily in drowsiness, but could not be discerned in comatose states. It was not possible to find intermittent rhythms during deep unconsciousness, mainly when there was zero activity in semicoma and drowsiness. EEG was similar to stages of sleep; phasic alternations were noticed in less severe disturbances of consciousness. In comatose and semicomatose states there was similarity to deep sleep, in drowsiness to light sleep, and in slight disturbances to initial stages of sleep. The technical coordination was done by I. Kalistova. Orig. art. has: 8 figures. [JPRS: 34,161] SUB CODE: 06 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 005 Card 1/1 0921

ACC NR. AP6032761

SOURCE CODE: CZ/0079/66/008/003/0282/0287

AUTHOR: Nadvornik, P. (Hradec-Kralove)

ORG: Neurological Clinic, Medical College, KU, Hzadec Kralove (Neurologicka klinika

lekarske fakulty KU)

TITLE: Diffused nervous systems

SOURCE: Activitas nervosa superior, v. 8, no. 3, 1966, 282-287

TOPIC TAGS: nervous system, anatomy, cell physiology, zoology

ABSTRACT: Early hypotheses about nerve-like reactions in sponges, branchiata, and hydrozoans are summarized and the term "diffused nervous system" discussed. The anatomy of a polyp is described, its motion toward light and search for oxygen indicating some form of light-sensitive organ and chemical receptors even though it has not been possible to distinguish their form. These may be in the slender hairs which protrude from cells lining its enteric cavity or in the tentacles surrounding its mouth. The polyp's nervous system consists of certain epithelial cells which have been converted to sensory cells and react cheifly to touch. These neuroepithelial cells expand at the base and contain a typical nucleus with nerve fibers attached. In the subepithelium these fibers join bipolar or multi-polar ganglia to form a plexus directly connected with the primitive muscular elements. The relation of this nerve system with the polyp's cnidoblast has not been established. Although these sting cells have a

Card 1/2

#### ACC NR: AP6032761

reflex reaction, this may be a direct reaction to mechanical or chemical stimuli and independent of any nervous reaction. The medusa, particularly the scyphozoan, has a more complex anatomy and nervous system. Its ectoderm has epithelial cells, including light-sensitive elements, ocelli with sensory cells, and statocysts. Its nerve system is in the mezoglea and consists of an outer layer of bipolar cells and an inner layer of multi-polar cells, with a plexus in the medusa head connected with ganglia in the entoderm. Around the bell circumference nerve fibers are concentrated in two rings, the upper ring, just under the epithelium, is the afferent sector of its nervous system and has sensory fibers leading from the statocysts and primitive eyes. The lower ring has fibers running from the upper ring and from eight rhopalia located around the circumference of the medusa head. It is composed of ganglia governing the longitudinal muscular system, which is then described in detail to explain its rhythmic motion. Orig. art. has: 1 figure.

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 003/ SOV REF: 001/ OTH REF: 011

Card 2/2

ACC NRI AP6032762

SOURCE CODE: CZ/0079/66/008/003/0287/0293

AUTHOR: Nadvornik, P. (Hradec Kralove)

ORG: Neurological Clinic, Medical College, KU, Hzadec Kralove (Neurologicka klinika

lekarske fakulty KU)

TITLE: Ganglionic nervous systems

SOURCE: Activitas nervosa superior, v. 8, no. 3, 1966, 287-293

TOPIC TAGS: nervous system, zoology, physiology, anatomy, nerve fiber

ABSTRACT: The lower invertebrates, such as worms and particularly mollusks, have nerve ganglia localized in their anterior segments, about the mouth and digestive tracts. These are connected with receptors such as statocysts, chemical sensors, and eyes. Nerve fibers form rings about the oesophagus and coelum, with paired ganglia grouped in a very primitive cerebral center. The supra-oesophagal nerve system is related with searching for and ingurgitation of food; the suboesophagal or ventral system with motor, digestive and circulatory activity. The lower flatworms have two head ganglia, a bilobate brain connected by a commissure. From the oesophageal ring several nerve links run backward, two along the back, two ventral, and two along the edge of the body. The ventral strips increase in size and in higher worm types develop brain knots, e.g., nemertian ribbon worms have a quadrilobal brain consisting of two back ganglia and two ventral, while nemathelminths and trochlminths have additional

Card 1/2

# ACC NR: AP6032762

lateral pairs, called leg ganglia. The higher worms, analids and tentaculata, have a nervous system related with their body segmentation and located in the mesoderm as cells in pouches between the somatopleura and the coleum. These cells are interconnected by longitudinal and laternal commissures in the form of a ladder, and called an orthogonal system. The evolution of these nervous systems is traced through the larval stages of lower invertebrates, such as the gastropods, amphineura, scaphopoda, and cephalopoda. The final example is a detailed study of the nervous system of the octopus with some 500 million nerve elements (300 million in its arms and 200 million neurons in its brain) all interconnected in some 50 major ganglia, chiefly to govern its motor reactions. Its receptor system is both ocular and chemico-tactile, connected to the lobus bucalis and lobus frontalis, which contain about 5 million nerve elements. The ocular system is described in considerable detail. Orig. art. has: 1 figure.

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 003/ SOV REF: 001/ OTH REF: 011

Card 2/2

CZ/0079/66/008/003/0282/0287

CZECHOSLOVAKTA

AUTHOR: Nadvornik, P. (Hradec-Kralove)

ORG: Neurological Clinic, Medical College, KU, Hzadec Kralove (Neurologicka klinika

lekarske fakulty KU)

TITLE: Diffused nervous systems

SOURCE: Activitas nervosa superior, v. 8, no. 3, 1966, 282-287

TOPIC TAGS: nervous system, anatomy, cell physiology, zoology

ABSTRACT: Early hypotheses about nerve-like reactions in sponges, branchiata, and hydrozoans are summarized and the term "diffused nervous system" discussed. The anatomy of a polyp is described, its motion toward light and search for oxygen indicating some form of light-sensitive organ and chemical receptors even though it has not been possible to distinguish their form. These may be in the slender hairs which protrude from cells lining its enteric cavity or in the tentacles surrounding its mouth. The polyp's nervous system consists of certain epithelial cells which have been converted to sensory cells and react cheifly to touch. These neuroepithelial cells expand at the base and contain a typical nucleus with nerve fibers attached. In the subepithelium these fibers join bipolar or multi-polar ganglia to form a plexus directly connected with the primitive muscular elements. The relation of this nerve system with the polyp's chidoblast has not been established. Although these sting cells have a 1/2

Hydrobiology

CZ/0079/66/008/003/0287/0293

CZECHOSLOVANIA

AUTHOR: Nadvornik, P. (Hradec Kralove)

ORG: Neurological Clinic, Medical College, KU, Hzadec Kralove (Neurologicka klinika

lekarske fakulty KU)

TITLE: Ganglionic nervous systems

SOURCE: Activitas nervosa superior, v. 8, no. 3, 1966, 287-293

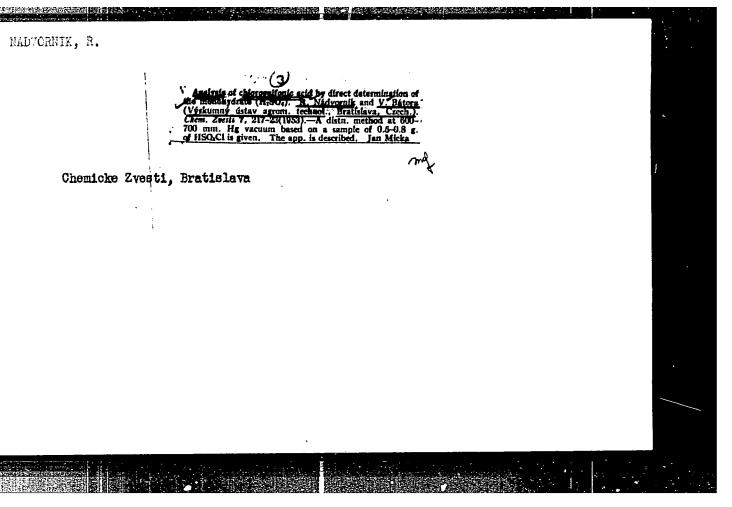
TOPIC TAGS: nervous system, zoology, physiology, anatomy, nerve fiber

ABSTRACT: The lower invertebrates, such as worms and particularly mollusks, have nerve ganglia localized in their anterior segments, about the mouth and digestive tracts. These are connected with receptors such as statocysts, chemical sensors, and eyes. Nerve fibers form rings about the oesophagus and coelum, with paired ganglia grouped in a very primitive cerebral center. The supra-oesophagal nerve system is related with searching for and ingurgitation of food; the suboesophagal or ventral system with motor, digestive and circulatory activity. The lower flatworms have two head ganglia, a bilobate brain connected by a commissure. From the oesophageal ring several nerve links run backward, two along the back, two ventral, and two along the edge of the body. The ventral strips increase in size and in higher worm types develop brain knots, e.g., nemertian ribbon worms have a quadrilobal brain consisting of two back ganglia and two ventral, while nemathelminths and trochlminths have additional 1/2

lateral pairs, called leg ganglia. The higher worms, analids and tentaculata, have a nervous system related with their body segmentation and located in the mesoderm as cells in pouches between the somatopleura and the coleum. These cells are interconnected by longitudinal and laternal commissures in the form of a ladder, and called an orthogonal system. The evolution of these nervous systems is traced through the larval stages of lower invertebrates, such as the gastropods, amphineura, scaphopoda, and cephalopoda. The final example is a detailed study of the nervous system of the octopus with some 500 million nerve elements (300 million in its arms and 200 million neurons in its brain) all interconnected in some 50 major ganglia, chiefly to govern its motor reactions. Its receptor system is both ocular and chemico-tactile, connected to the lobus bucalis and lobus frontalis, which contain about 5 million nerve elements. The ocular system is described in considerable detail. Orig. art. has: 1 figure.

2/2

- 15 -



CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application, Part 3. -Pesticides.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 62039.

: Robert Nadvornik, Miroslav Toman, Milan Sterba. Author

: Not given. Inst

: Study of Structure and Stabilization of Bord-Title

eaux Mixture.

Orig Pub: Polnohospodarstvo, 1957, 4, No 5, 1009 - 1016.

Abstract: The effects of the ratio of CuSO4.5H20 to CaO and of stabilizer additions on the sedimenta-

tion and alteration of the microscopic structure of precipitates in the Bordeaux Mixture were studied. The presence of film formations in fresh precipitates and of spherocrystals in

Card 1/2

Clinical and anatorical correlations in spinal cord injuries (methodical study). Fozhl. chir. 43 no.10:658-662 C '64.

1. Neuroccirurgicka Llinisa (prednosta prof. dr. E. Fetr), Ustav soudaho lekarstvi (p. doosta doc. dr. J. Beran), lekarska fakulty Karlovy Uric graity v Bradci Kralove.

Effect of polythinzide on renal excretion of elecutive the lext control of elecutive the lext co

CZECHOSLOVAKIA

UDC 616.61-072.7-053.8/.9

NADVORNIKOVA, H.: 1st Internal Department, Thomayer's Hospital (I. Interni Oddeleni Thomayerovy Nemocnice), Prague - Krc, Head (Primar) Dr J. TROJAN.

"The Diluting Activity of the Kidneys in Adults and in Old Age."

Prague, Casopis Lekaru Ceskych, Vol 105, No 42, 21 Oct 66, pp 1149 - 1151

Abstract /Author's English summary 7: The diluting function of the kidneys decreases with advancing age. The minimum value of the specific weight of the urine (adjusted to 15°C) after receiving 20 ml of water per kg of body weight is 1.003 or less in persons under 50, and 1.005 or less in people over 50. The speed of the excretion of a water load also decreases with advancing age.

2 Figures, 3 Tables, 3 Western, 1 Czech reference. (Manuscript received Oct 65).

1/1

Detection and survival of pathogenic serotypes of Escherichia coli in sewage and in soil. Vrach. delo no. 8:133-134 Ag'63.

(MIRA 16:9)

1. Kafedra obshchey gigiyeny (zav. - prof. A.F.Stoyanovskiy)

Odesskogo meditsinskogo instituta.

(ESCHERICHIA COLI)

NADVORNY, V., espirant

Ladybugs damage apricots. Zashch. rast. ot vred. i bol.
10 no.8:44 '65. (MIRA 18:11)

1. Moskovskiy gosudarstvennyy universitet.

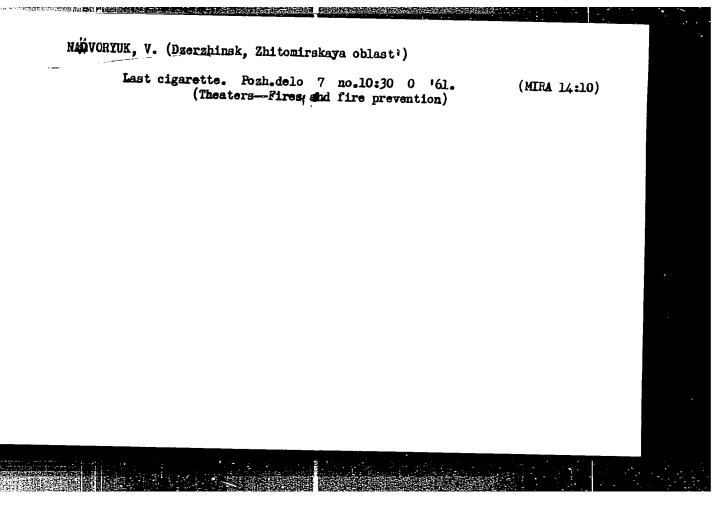
NADVORNYY, Vladimir Petrovich; GLADKOV, V.A., red.; BARANOV, I.A., tekhn.

red.

[We struggle for big fish catches] V pokhode za vysokie ulovy. Murmansk,
Murmanskoe knizhnoe izd-vo, 1960. 27 p.

(Kola Peninsula—Fisheries)

(MIRA 14:11)



CZATKOWSKI, Lessek E.; TRZECIAK, Wanda; MADWORMA, Hanna

Analysis of 30 cases of Perthe's disease (diagnostic errors in tuberculosis of the hip). Gruslica 28 no.7:527-534 Jl '60.

1. Z Sanatorium Gruslicy Kostno-Stawowej w Otwocku Dyrektor: dr med. J.Sowinski.

(TUBERCULOSIS, OSTEOARTICULAR diag.)

(OSTEOCHOMDRITIS diag.)

(HIP dis.)

SAPER, Jerzy; TETER, Jerzy; JANCZEWSKI, Zygmunt; NADWORNY, Jerzy

AND STANDARD BUILDING TO STANDARD BUILDING TO STANDARD BUILDING THE STANDARD BUILDING BUILDING

Endocrinological similarity between myotonia congenita and dystrophia myotomica. Preliminary communication. Neur.&c.polska 10 no.6:777-786 160.

1. Z Kliniki Neurologicznej A.M. w Warszawie p.o. Kierownika:
prof. dr med. I.Hausmanowa-Petrusewicz. Z Poradni Endokrynologicznej
w Warszawie, Kierownik: doc. dr med. J.Teter. Z I Kliniki Poloznictza i Chorob Kobiecych A.M. w Warszawie, Kierownik: prof. dr
med. T.Bulski.

(MYOTONIA CONGENITAL diag) (MYOTONIA ATROPHICA diag)

TETER, Jerzy; WIGURA, Aleksander; NADWORNY, Jerzy; JANCZEWSKI, Zygmunt

Congenital adrenal dysplasia in a female with signs of pseudohemaphroditis (adrenal virilism). Endokr. pol. 12 no.5:531-542 '61.

1. Poradnia Endokrynologiczna w Warszawie Kierownik: doc. dr J.Teter
Klinika Urologiczna MW w Warszawie Kierownik: prof. dr T.Wesolowski
I Klinika Poloznictwa i Chorob Kobiecych AM w Warszawie Kierownik:
prof. dr T. Bulski.

(ADRENOGENITAL SYNDROME case reports)

WECKWICZ, Grazyna; NADWORNY, Jerzy

Symepen therapy of pruritus vulvae. Pelski tygod. lek. 16 ne.6: 212-213 6 F 161.

1. Z Peradni Endekrynologicznej w Warszawie; kierownik: doc. dr med. J. Teter.

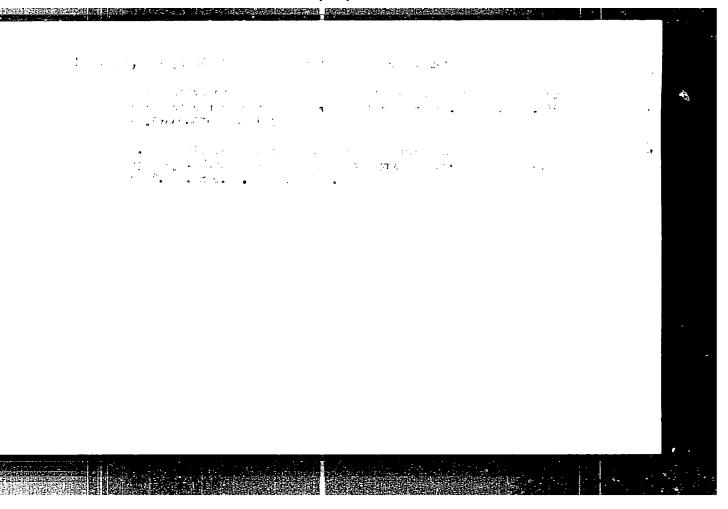
(ANTIHISTAMINICS ther) (PRURITUS ther) (VULVA dis)

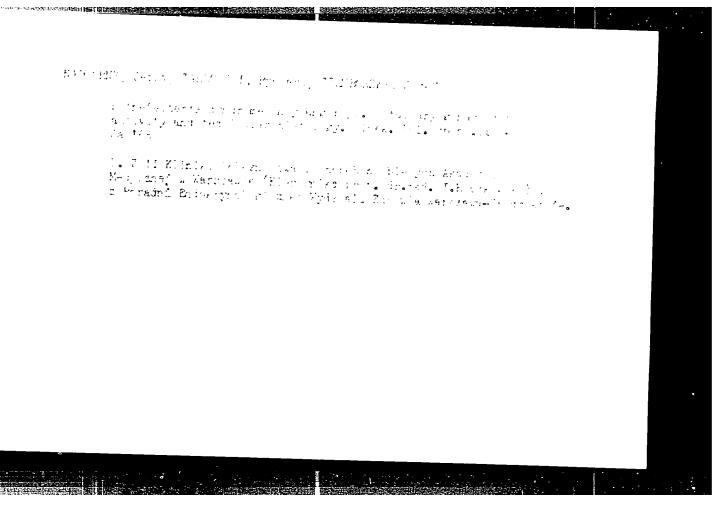
Electrical Control of the control of an electric control of an electric control of the control of an electric control of the control of an electric control of the control

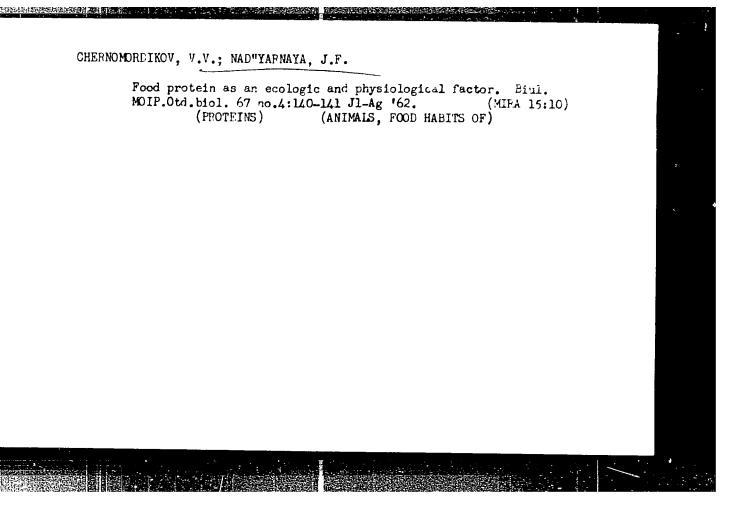
TOMASZEWSKI, Leszek, dr. med.; NADWORNY, Jerzy; ZMUDZKA, Bartana

Vitamin B-12 and sterility. Pol. tyg. lek. 19 no.50:1715-1718

1. Z Laboratorium Zespolu Klinik Dzieciecych Oddzialu Pediatrycznego Akademii Medycznej w Warszawie (Kierownik: dr. med. Leszek Tomaszewski) i z II Kliniki Poloznictwa i Chorob Kobiecych Akademii Medycznej w Warszawie i Poradni Endokrynologicznej (Kierownik: prof. dr. med. Ireneusz Roszkowski).







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CHERNOMORDINOV, V.V.; Frinimali uchastiye: EESPALOVA, I.; MaDMYARNAYA, N.;
TOKOREVA, T.; MaMATKINA, E.

Atmospheric fundity as an ecologico-physiological factor. For I.
AN SSSR 140 no.4:935-937 0 '61. (MIRA 14:9)

1. Moskovskiy posudarstvennyy universitet im. M.V.Lomonov Jva.
Predstavleno akademikom I.I.Shmal pauzenom

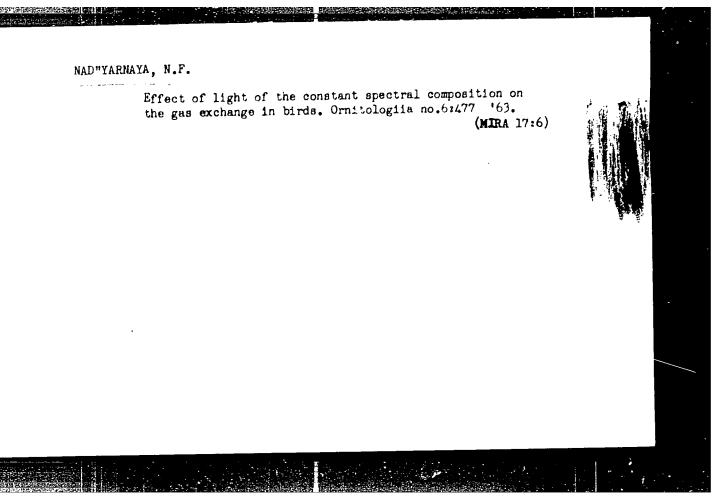
(MIRADERY._PHYSIOLOGI AL FFECT)
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# NAD"YARNAYA, N. F.

Effect of red and orange rays on the gas exchange in birds. Nauch. dokl. vys. shkoly; biol. nauki no.3:66-68 '62. (MIRA 15:7)

1. Rekomendovana kafedroy zoologii pozvonochnykh Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova.

(LIGHT-\_PHYSIOLOGICAL EFFECT) (RESPIRATION)
(BIRDS-\_PHYSIOLOGY)



NADYBAIDZE, I.; GONCHARENKO, V.

This is only the beginning! Okhr. truda i sots. strakh. 3 no.9: 34-36 S '60. (MIRA 14:4)

1. Predsedatel' zavkoma Ordzhonikidzevskogo steklotarno-izolyatornogo zavoda (for Nadybaidze). 2. Starshiy inzhener po tekhnike bezopasnosti Ordzhonikidzevskogo steklotarno-izolyatornogo zavoda (for Goncharenko).

(Ordzhonikidzevskiy District-Glass manufacture--Hygienic aspects)

KHOKHLOV, V.K.; PRUDNIKOV, I.A.; V'YALITSYN, V.A.; NADYBIN, A.F.

Experimental testing of a model of the bunching section of a 50 Mev. linear electron accelerator. Elektrofiz. app. no.2:104-114 '64. (MIRA 18:3)

L 00941-66 EWT(m)/EPA(w)-2/EWA(m)-2	MP(e)		
ACCESSION NR: AT5015936	UR/3092/65/000/000/00		ą
AUTHOR: Vivalitayn, V. A.; Nadybin, Smirnov, V. L.; Khokhlov, V. R.	A. I.; Prudnikov, I. A.; Ryabtsov, A	26, V.1	
TITLE: Investigation of the acceleration	ng system of a 5-M		
SOURCE: Moscow, Nauchno-issledova apparatury. Elektrofizicheskaya apparatury. TOPIC TAGS: electron and the statement of the s	atel'skiy institut elektrofizicheskoy	or /9	
TOPIC TAGS: electron accelerator, 5	Mev linear accelerate		
electron accelerator which is intended for the accelerating system is made in the guide operating at Jr/2 mode. The initial has variable discount.	experimental model of the 5-Mev linea or beta and gamma therapy are report form of a 2338. 3-mm long septate wa al 767-mm long section	ed.   ve-	
can be continuously varied to ensure a hi	igh capture coefficient. These measur	s Cod	
ing said and a said and a said a	野の大量をというののでは、大きな、よみでは、		

#### "APPROVED FOR RELEASE: 03/13/2001

#### CIA-RDP86-00513R001135920006-4

L 00941-66 ACCESSION NR: AT5015936 characteristics are presented: energy and accelerated-beam energy-spectrum width vs. frequency (maximum energy, around 2798.6 Mc); ratio of acceleratedparticle current to injection current (capture) vs. frequency (80% corresponds to about 2800 Mc); energy, energy-spectrum width and capture vs. r-f power; same quantities vs. injection current: energy and energy-spectrum width vs. injection current; energy and energy-spectrum width vs. injection voltage. The energy spread of electrons at the spectrum half-height is ±5% or less; the average current of accelerated electrons, 70 pa. Orig. art. has: 10 figures and 1 formula. ASSOCIATION: none ENGL: 00 SUBMITTED: 00 OTHER: 000 NO REF SOVI 002 Card 2/2 DP

FOGEL', Ya.M.; NADYKTO, B.T.; RYBALKO, V.F.; SLABOSPITSKIY, R.P.;
KOROBCHANSKAYA, I.Ye.

Possibility of using secondary ion-ion emission phenomena
in studying heterogeneous catalytic reactions. Dokl.
AN SSSR 147 no.2:414-417 N '62. (MIRA 15:11)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.
Predstavleno akademikom A.N. Frumkinym.

(Catalysis)

(Ionization of gases)

FCGEL', Ya.M.; NADYKTO, B.T.; RYBALKO, V.F.; SHVACHKO, V.I.; KORGECHANSKAYA, I.Ye.

Study of the catalytic oxidation of ammonia on plat num by the secondary ion emission method. Kin. i kat. 5 no.3:496-504 My-Je '64. (MIRA 17:11)

1. Khar'kovskiy gosudatstvennyy universitet imeni Gor'kogo.

FOGEL', Ya.M. NADYKTO, B.T.; SHVACHKO, V.I.; RYBALKO, V.F.; KOROBCHANSKAYA, I.Ye.

Use of the secondary ion emission method for investigating catalytic reactions between ammonia and nitric oxide, and the decomposition of nitric oxide on platinum. Kin. i kat. 5 no.53942-544 S-0 164. (MIRA 17:12)

1. Khar'kovskiy gosudarstvennyy universitet imeni Gor'kogo.

L 23051-65 EWG(j)/EWT(m)/EPF(c)/EPR/EWP(t)/EWP(b) Pr-4/Ps-4 IJP(c) S/0076/64/038/010/2397/2402 / ACCESSION NR: AP4047980 AUTHOR: Fogel'. Ya. M.(Khar'kov); Nadykto, B. T.(Khar'kov); Shvachko, V. I. (Kar'kov); Rybalko, V. F. (Khar'kov) TITLE: Secondary ion emission investigation of the state of oxygen adsorbed on a silver surface SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 10, 1964, 2397-2402 TOPIC TAGS: secondary oxygen ion emission, oxidation mechanism, silver oxidation catalyst, negative oxygen ion, positive oxygen ion ABSTRACT: In order to study the mechanism of the oxidation process on a metallic catalyst (silver catalyst used in ethylene oxidation) the state of the oxygen adsorbed on the surface was determined. The mass spectra of the secondary positive and negative ions formed by bombarding a silver ribbon with a primary beam of argon ions in an oxygen atmosphere were studied. The dependence of the intensity of the mass spectral lines on the oxygen pressure and the ribbon temperature was determined. In the 20-500C range the oxygen adsorbed on the silver surface was partly atomic and partly molecular, and some of the molecular oxy-Card1/2

L 23051-65

ACCESSION NR: AP4047980

2

gen was in the state of a negative molecular ion  $O_2^-$ . The state of the charge of the atomic oxygen was not determined. At temperatures above 300C the effect of the oxides on the silver surface on the secondary emission of oxygen ions was insignificant; the latter were formed only from oxygen adsorbed on the silver surface. Below 300C the surface oxides could be involved in the secondary emission of oxygen ions, but apparently to only a small extent. Thus if the oxygen in the surface oxides on the silver plays a significant role in catalytic oxidation reactions, the activity of the silver catalyst will drop at temperatures above 300C. "In conclusion we wish to sincerely thank prof. A. K. Val'ter for constant advice and interest in the work." Orig. art. has: 3 figures and 3 equations.

ASSOCIATION: Khar'kovskiy gosudarstvenny\*y universitet im. A. M. Gor'kogo (Kharkov State University)

SUBMITTED: 17Oct63

ENCL: 00

SUB CODE: GC, NP

NO REF SOV: 005

OTHER: 002

Card 2/2

FOGEL', Ya.M.; NADYKTO, B.T.; SHVACHKO, V.I.; RYBALKO, V.F.; KOROBCHANSKAYA, I.Ye.

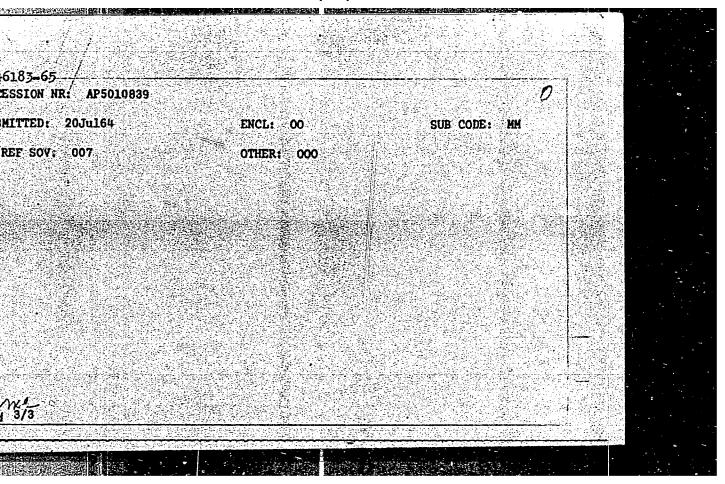
Catalytic oxidation of ammonia on platinum studied by the method of secondary ionic emission. Dokl. AN SSSR 155 no.1:171-174 Mr 164. (MIRA 17:4)

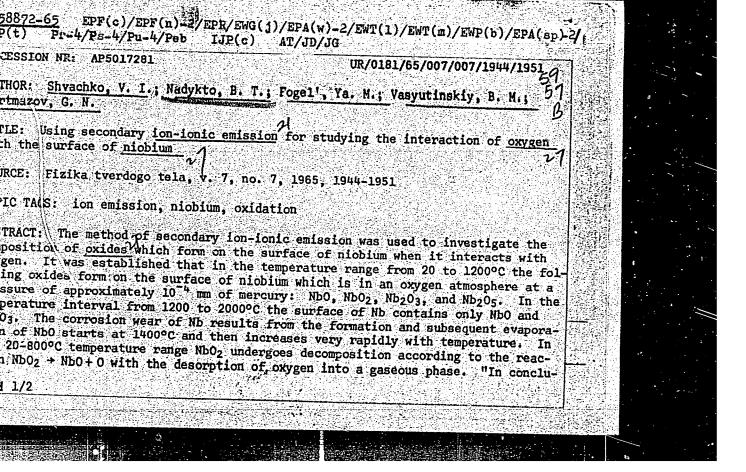
1. Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Predstavleno akademikom A.N.Frumkinym.

	TOTAL TOWN	•
46183-65 EWT(1)/EWT(m)/EPA(sp)-2/EPF(c)/EWA(d)/EPA(w)-2/EEC(t)/EWP(t)/		
P(b) Pab-10/Pr-4/Peb -IJP(c) JD/WW/WB/AT		
THOR: Shvachko, V. I.; Nadykto, B. T.; Fogel', Ya. M.; Garger, K. S.;		
TLE: The use of secondary ion emission for investigation of corrosion processes the surface of steel		
URCE: AN SSSR. Doklady, v. 161, no. 4, 1965, 886-888		
PIC TAGS: secondary emission, steel surface <u>oxidation</u> , <u>iron</u> pentacarbonyl, rric oxide, ferrous hydroxide, argon ion beam, steel corrosion		5
STRACT: The article presents preliminary results of a study of the processes curring on the surface of steel during heating in a vacuum (5 x 10 <sup>-6</sup> mm Hg) and oxygen (1 x 10 <sup>-4</sup> mm Hg), carried out with the aid of secondary ionic emission. e source of secondary ion emission was a steel strip 20 x 4 x 0.1 mm containing n \$) 0.39\$ C, 0.45\$ Mm, 0.28\$ Cr, 0.016\$ P and <0.01\$ Si. The primary beam was de up of Ar ions accelerated to 20 kev. Curves for the intensity of the various condary ions versus the temperature of the steel strip are given. The formation	18	
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CESSION NR: AP5010839			
ferric oxide on the steel surface is due to oxygen in the residual gas. How-			
er at oxygen pressures higher than 2·10 <sup>-5</sup> mm Hg there is no increase in the innsity of the Fe <sub>2</sub> O <sub>3</sub> <sup>-1</sup> ion beam, and therefore no increase in the oxide coating on			
e steel surface. In the 20-500° range, the rate of decomposition of ferric			
ide increases with temperature more rapidly than the rate of oxide formation,			
ich reduces the oxide coating. In the 500-800° range this situation is reversed			
d the oxide coating increases. The formation of Fe(OH) is considered in rela-			. • :
on to the pressure of water vapor. The coating of the surface with Fe(CO); in-	表表示	-	
eases monotonically above 200°. A definite part in the mechanism of formation			
iron pentacarbonyl is played by the carbon present in the steel; the oxidation carbon may constitute the first stage of formation of the pentacarbonyl. If			
ich is the case, the formation and evaporation of Fe(CO) <sub>5</sub> should lead to the de-	1294		
rburization of steel. "We consider it our pleasant duty to thank Prof. A. K.			
1'ter for a steady interest in this work." Orig. art. has: 3 figures.			
SOCIATION: Khar'kovskiy gosudarstvennyy universitet im. A. M. Gor'kogo (Kharkov			
ate University)			
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SSION NR: AP5017281		2	
ı, we are sincerely grat Orig. art. has: 4	eful to A. K. Val <sup>t</sup> ter for his o		
CIATION: Khar kovskiy e University)	gosudarstvennyy universitet im.	A. M. Gorikogo (Kharkov	
IITED: 27Nov64	ENCL: -00	SUB CODE: GC, MM	
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المسكر			
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S/C57/62/032/003/008/019 B108/B104

76.4341

AUTHORS:

TITLE:

Demirkhanov, R. A., Khodyrev, Yu. S., Romashko, N. D., and

Nadykto, B. T.

Discharge induced by electromagnetic travelling wave

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 5, 1962, 313-321

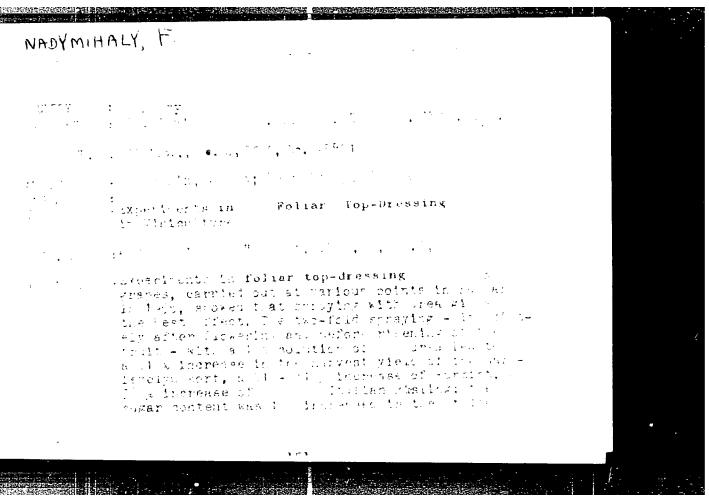
TEXT: The authors studied the parameters of an electrodeless pinched discharge induced by standing and travelling electromagnetic waves in a toroidal 10 cm wide discharge tube. The experimental arrangement is shown in Fig. 1. The power of the h. f. tube generator could be varied continuously from 0 to 10 kw, its frequency from 0.8 to 4 Mcps. Charged particle concentration, electron temperature and space potential were measured with probes. Pinched discharges were observed in Xe, Kr, Ar, He,  $0_2$ ,  $0_2$ , and  $0_2$ . The particle concentration from the center of the pinch discharge to the wall decreases more rapidly than would follow from diffusion theory of the positive column. It was found that the minimum diameter of the pinch for all powers of the discharge is reached at a Card 1/2

Discharge induced by electromagnetic ... 3/057/62/032/003/008/019

0.02 mm mercury head. The pinch broadens with increasing pressure at powers greater than 200 w and also with increasing power at pressures above 0.03 mm Hg. Up to a certain pressure, electron concentration rises, but it decreases again when pressure is further increased. A monotonous increase of the electron concentration with power was established.

Electron temperature was between 3-10<sup>4</sup> and 6-10<sup>4</sup> K. The pinching of the discharge plasma is determined essentially by the r-component of the electric field of the wave which, through the non-diffusional departure of electrons from the plasma to the wall, increases the negative potential (with respect to the plasma) of the wall. V. P. Volkov is thanked for assistance. There are 13 figures and 14 references: 6 Soviet and 7 non-Soviet. The four most recent references to Englishlanguage publications read as follows: E. R. Harrison. J. of Electr. a. control, 5, 4, 5, 1958; T. H. Y. Young, J. Soyers. Proc. Phys. Soc., 7C, no. 45113, 663, 1957; H. A. H. Boot a. R. B. R. Shersby-Harvie. Nature, 18, 1187, 1957; H. A. H. Boot et al. J. of Electr. Control, 4, no. 5, 434, 1958.

SUBMITTED: December 17, 1960 Card 2/3



SHVARTS, A.L., kand.tekhn.nauk; DIK, E.P., inzh.; DUDNIKOVA, I.P., inzh.;

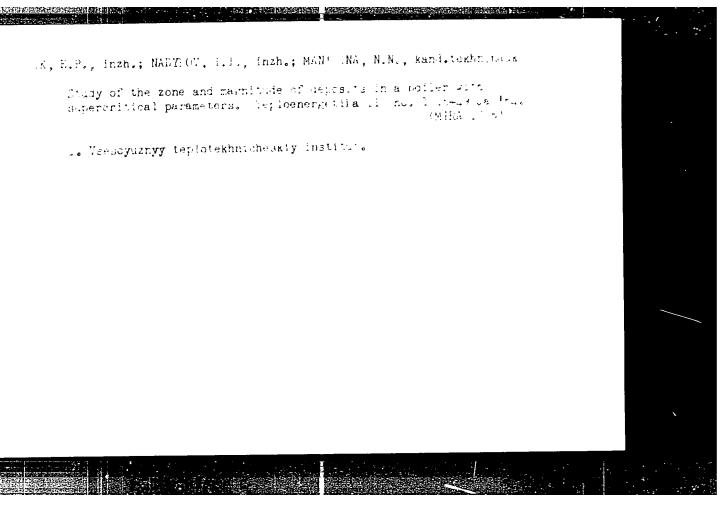
NADYROV, I., inzh.

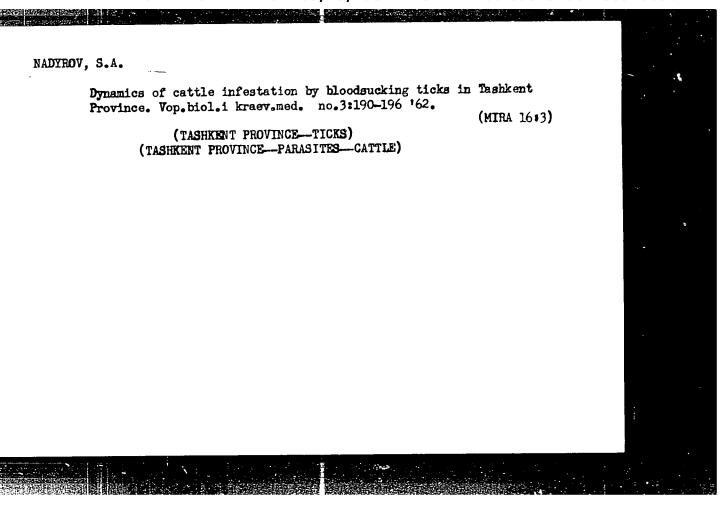
Study of transient processes in a once—through type boiler with supercritical parameters. Teploenergetika 10 no.4:35-41 Ap '63.

(MIRA 16:3)

1. Vsesoyuznyy teplotekhnicheskiy institut.

(Boilers)





SOV/117-58-12-26/36

AUTHORS:

Tuyev, V.S. and Nadyrov, U.G., Engineer

TITLE:

Some Problems of Mechanization of Boiler Production (Nekotoryye voprosy mekhanizatsii kotel'nogo proizvodstva)

PERIODICAL:

Mashinostroitel', 1958, Nr 12, p 35 (USSR)

ABSTRACT:

Information is given on deficiencies existing in the production of parts at the Tambov Plant of Chemical Machine Building. The supply of flanged and elliptic bottom parts from other plants entails considerable difficulties, cost, etc, and production at the plant itself is only possible by manual processes. Tests carried out to introduce mechanized production were unsuccessful, due to the lack of machine tools. It is requested to supply plants making chemical equipment with the necessary machine tools to improve the quality of the manufactured parts and to reduce production

costs.

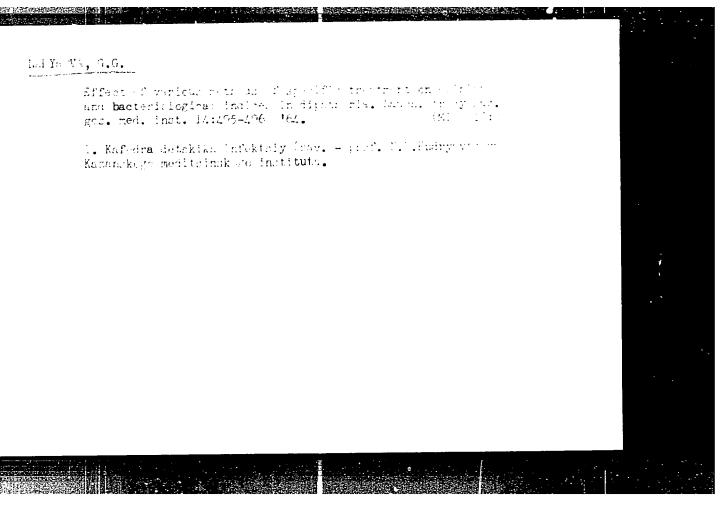
ASSOCIATION:

Tambovskiy zavod khimicheskogo mashinostroyeniya (Tambov

Plant of Chemical Machine Building)

Card 1/1

CIA-RDP86-00513R001135920006-4" APPROVED FOR RELEASE: 03/13/2001



DOERODEYEV, A. N.; OFITSEROV, B. S.; KALININ, Yu. V.; MADYRSHIN, R. I.

Problems of the technology of manufacturing keramzit concrete slabs in the Uzbek S.S.R. Sbor. nauch. trud. NII po stroi.

ASIA no.2136-44 '61. (MIRA 16:1)

(Uzbekistan—Keramzit)

(Lightweight concrete)

IVANOV, N.I., kand.tekhn.nauk; KULAKOV, A.M., inzh.; SHAKHLIN, V.I., inzh.;
GAZHUR, F.G., inzh.; NADYRSHIMA, L.S., inzh.; TVILINEV, F.Ya., inzh.

Flame stands for the investigation of thermal processes in furnaces.
Stall 22 no.8:759 Ag '62. (MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.

(Metallurgical furnaces—Combustion)

(Heat—Transmission)

Calculation of Storm-Sewer and General-Flow Sewer Systems According to the tical High-Water Areas." Cand Tach Sci. Moscow Order of the Labor Hed Banner struction Engineering Inst imeni V. V. Knybyshev, 4 Jan 55. (VM, 24 Dec 54)

vey of Scientific and Technical Dissertations Defended at USSR Higher Educational titutions (12)

SUM No. 556, 24 Jun 55

NADYSEV, Vasiliy Semenovich; GANICHEVA, Nina Vasiliyevna; MAKAROVA, Lidila Aleksanirovna; SOKOLISKIY, I.F., redaktor; FETROVSKAYA, Ye., tekhnicheskiy redaktor.

[Collection of graphs for hydraulic calculations of sewage collectors, pressure pipelines and conduits] Sbornik grafikov dlia gidravlicheskogo rascheta kanalizatsionnykh kollektorov, napornykh truboprovodov i kanalov. Izd. 2-oe, dop.i perer. Noskva, Izd-vo Miniaterstva kommunalinogo khosiaistva RSFSR, 1955. 95 p. of graphs.

(Sewerage)

(NIRA 9:3)

NACYSTA  $TI = U_{\lambda}$ SSR /Chemical Technology. Chemical Products and Their Application Water treatment. Sewage water. bs Jour: Referat Zhur - Khimiya, No I, 1358, 1751 uthor : Nadysev V.\_\_ : Regulating Settling Tanks itle rig Pub: Zhil.-kommur. kh-vo, 1957, 5, 21-23 To ensure uniform operation of purification unit bstract: and an efficient utilization of their capacity, it is proposed to utilize regulating settling tanks (RS). Uniform discharge of sewage water from the RS is effected by means of a movable trough with a flexible discharge device. The precipitate deposited in the septin portion of the RS is removed by hydrostatic pressure during ard 1/3

SSR Chemical Technology. Chemical Products and Their Application
Water treatment. Sewage water.

H-5

bs Jour: Referat Zhur - Khimiya, No 1, 1953, 1751

the hours of maximum filling. Volume of RS is determined according to the schedule of hourly inflow and the magnitude of hourly discharge. The longest duration (hours) of the stay of sewage water is determined by means of the formula:

to Wp/q, where Wp -- volume of RS, in m3; q -- rate of flow of discharged sewage water, in m3/hour. Minimum filling hm (m) is determined by means of the formula: hm 100 Q/b, wherein b -- width of RS, in m; Q -- rate of flow of sewage water during the hours of minimum filling, in m3/second. The length L of the RS, derived by calculations, is checked on the basis of the precipitation of coarsely dispersed admixtures at the different degrees of filling: L Vhm/uo,

rd 2/3

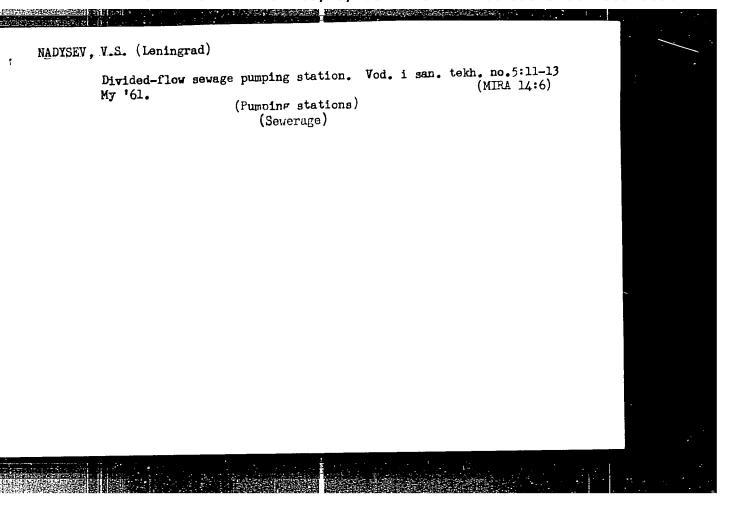
SSR /Chemical Technology. Chemical Products

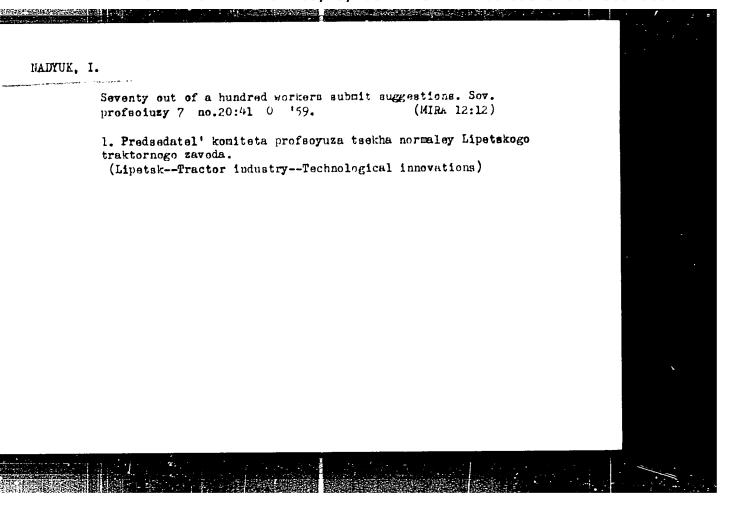
and Their Application
Water treatment. Sewage water.

bs Jour: Referat Zhur - Khimiya, No 1, 1953, 1751

where U. -- precipitation velocity, in m/second
(tentatively U. = 0.0004 m/second, which corresponds to a retention of 67.5% of coarsely dispersed admixtures); V 0.01 m/second. Under these conditions the minimum length will be:

L 0.01 100 Q / 0.004 b 2500 Q/b, m. An example of the calculations is given.





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Consider the characteristics of agricultural labor. Sots.trud
4 no.12:35-36 D '59. (MIRA 13:6)

1. Ispolnyayushchiy obyazannesti direktora i glavnyy agronom
sovkhoza im. Lunacharskogo Stalinskoy oblasti (for Nadyuk).
2. Glavnyy in-hener Beshevskogo sovkhoza Stalinskoy oblasti (for
Petrov). 3. Glavnyy zootekhnik Beshevskogo sovkhoza Stalinskoy
oblasti (for Ivanenko). 4. Rabotniki Binisterstva sel'skogo
khozyaystva SSSR (for Kalpin, Rubleva).

(Agriculture-Labor productivity)

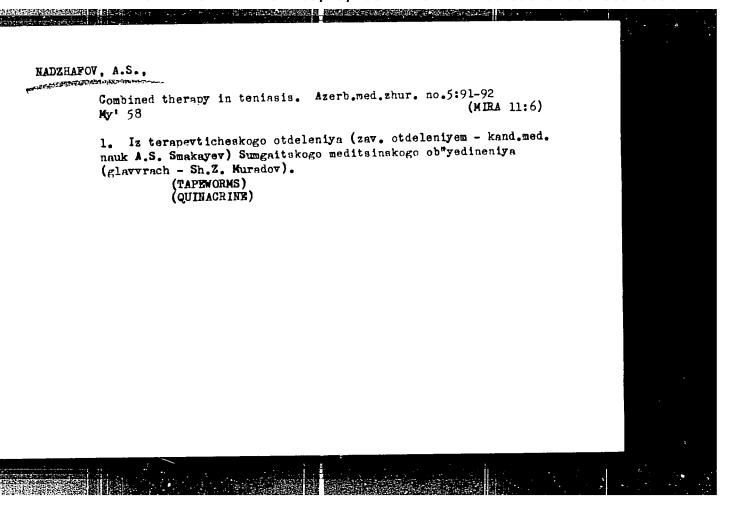
(Hours of labor)

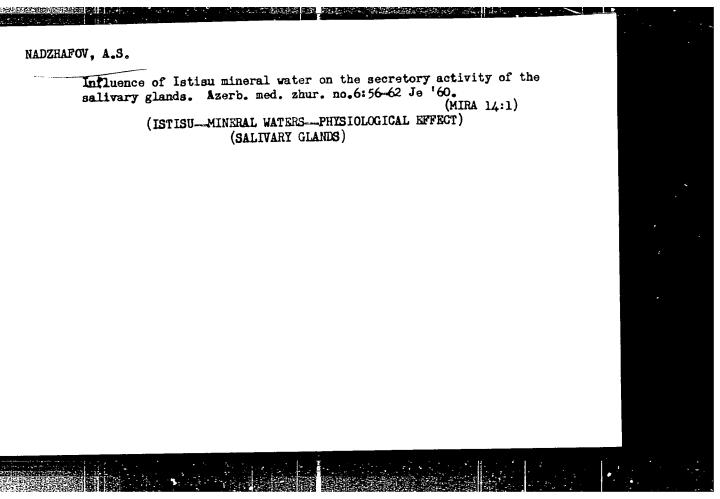
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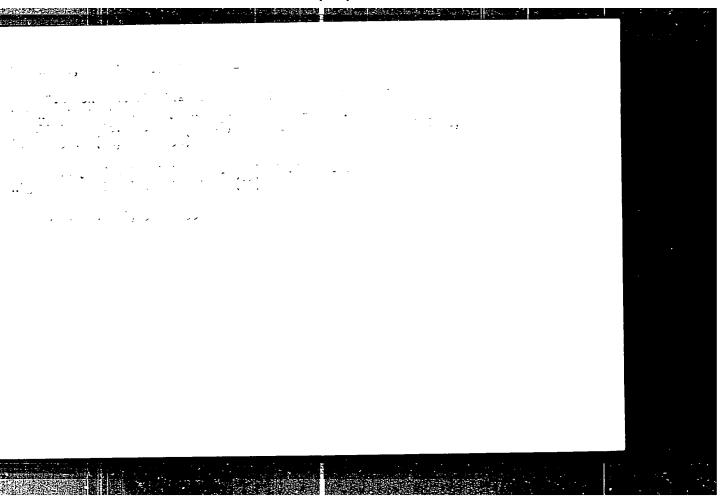
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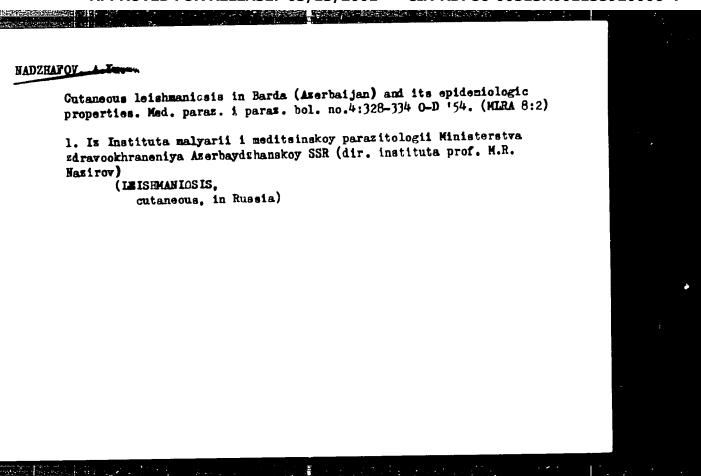
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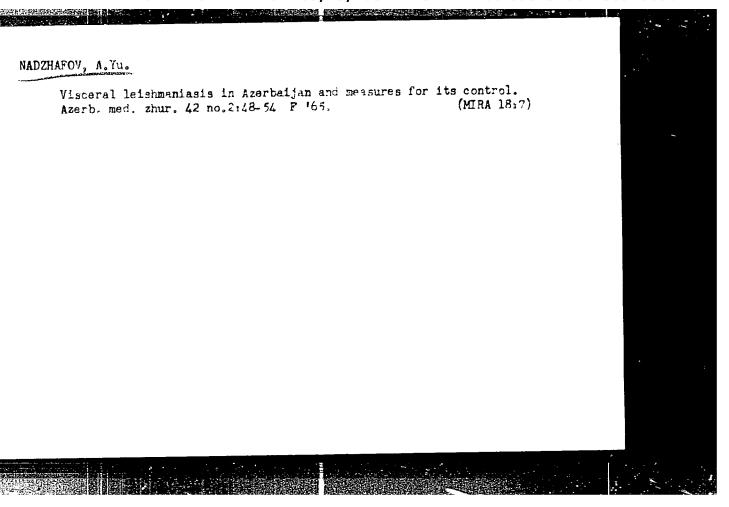
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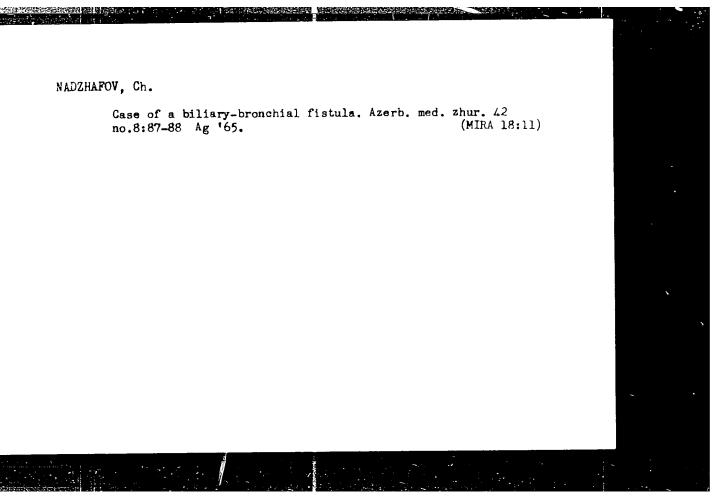
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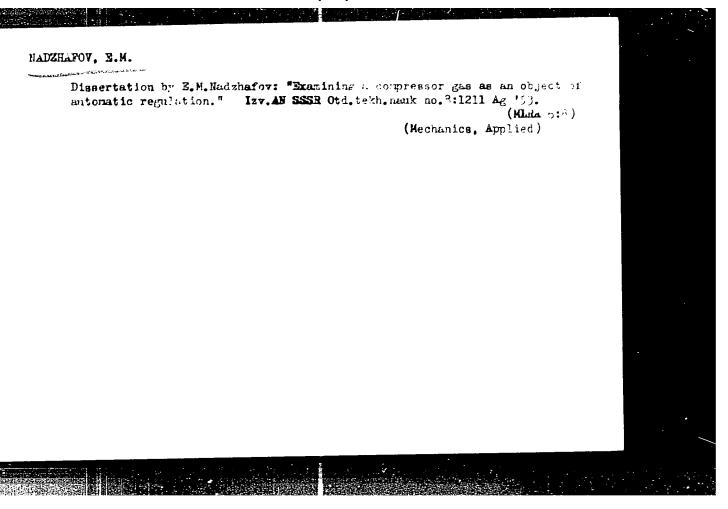
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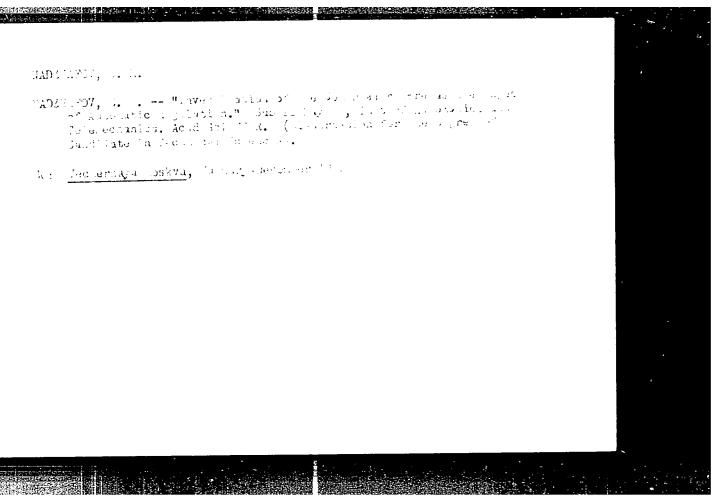
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DI HAFEU 6 SSR/Processes and Equipment for Chemical Industries - Control and Measuring Devices. Automatic Regulation, K-2 ost Journal: Referat Zhur - Khimiya, No 19, 1956, 64008 Author: Abdullayev, A. A., Nadzhafov, E. M. Institution: None Title: Procedure for Calculation of Spontaneous Vibrations in Pneumatic Regulators Original Periodical: Avtomatika i telemekhanika, 1956, 17, No 3, 195-210 Abstract: A procedure has been worked out for an approximate calculation of spontaneous vibrations in pneumatic regulators of 04 type. Simplified models are proposed for the investigation of spontaneous vibrations in these regulators. ard 1/1